

Special Issue on Linear Algebra in Self-Validating Methods

| | |
|---|-----|
| J. Rohn, S.M. Rump and T. Yamamoto | |
| Preface | 1 |
| S.M. Rump | |
| Self-validating methods. | 3 |
| X. Chen, Y. Shogenji and M. Yamasaki | |
| Verification for existence of solutions of linear complementarity problems | 15 |
| C. Jansson | |
| Quasiconvex relaxations based on interval arithmetic | 27 |
| Z. Kulpa | |
| Diagrammatic representation for interval arithmetic | 55 |
| K. Nagatou and M.T. Nakao | |
| An enclosure method of eigenvalues for the elliptic operator linearized at an exact solution of nonlinear problems | 81 |
| J. Nedoma | |
| On solving vague systems of linear equations with pattern-shaped columns. | 107 |
| A. Neumaier | |
| Generalized Lyapunov-Schmidt reduction for parametrized equations at near singular points | 119 |
| S. Oishi | |
| Fast enclosure of matrix eigenvalues and singular values via rounding mode controlled computation | 133 |
| M. Plum | |
| Computer-assisted enclosure methods for elliptic differential equations | 147 |
| R. Rihm | |
| Acceleration of iteration methods for interval fixed point problems . | 189 |
| S.M. Rump | |
| Computational error bounds for multiple or nearly multiple eigenvalues | 209 |

Table of Contents continues

Table of Contents continued

N. Yamamoto

| | |
|--|-----|
| A simple method for error bounds of eigenvalues of symmetric matrices. | 227 |
| Author index to volume 324 | 235 |



This journal is part of **ContentsDirect**, the *free* alerting service which sends tables of contents by e-mail for Elsevier Science books and journals. You can register for **ContentsDirect** online at: www.elsevier.nl/locate/contentsdirect

